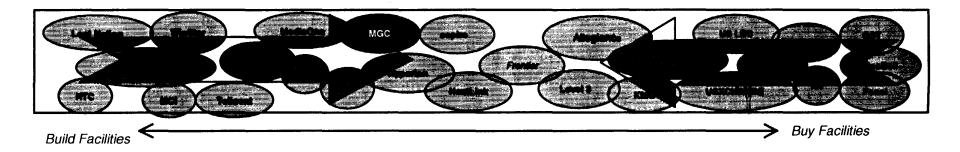
MediaOne Synopsis



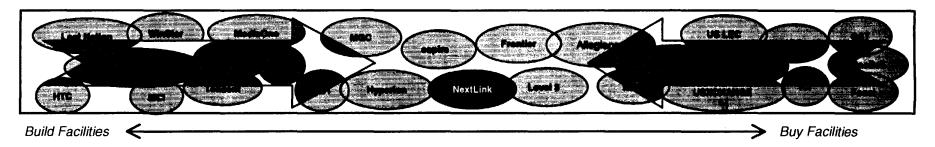
MediaOne Group is the third largest cable television system in operation in the United States and, as of this writing, has agreed to merge with AT&T. MediaOne's systems have channel capacity and addressability that are among the highest in the cable industry, and the company plans to offer cable-based telephony, Internet access, and high-speed data services. With its extensive CATV network, MediaOne can bypass ILEC facilities entirely.

MediaOne's cable television network passes approximately 8.5 million homes, and it provides CATV service to about five million customers. The company's systems include large clusters in Georgia, Massachusetts, California, Florida, Detroit and Minnesota. As of December 31, 1998, approximately 97% of MediaOne's total basic subscribers were located in clusters with a population greater than 100,000; this concentration allows for operating efficiencies that enhances MediaOne's ability to develop and deploy new broadband technologies and services by upgrading to hybrid fiber-coax networks. At the same time, MediaOne is positioned as one of the best CLECs to serve the residential market by bundling CATV, telephony, and high-speed data products. As of March 31, 1999, the company has approximately 16,500 residential telephone customers with 22,400 lines. Residential telephone services are available to over 700,000 market ready homes. MediaOne has one Lucent 5ESS switch deployed in the greater Los Angeles area.

MediaOne Synopsis (continued)

	Los Angeles		
Facilities	One class five switch Lucent 5ESS digital switch		
Targeting	 Uniquely positioned to take advantage of the residential market opportunities with integrated cable, telephony, and Internet access offers Existing systems pass 8.5 million homes and services are provided to over 5.0 million cable subscribers Approximately 97% of customers are located in clusters with a population greater than 100,000 		
Strategy	 Focuses on existing markets where clustering provides significant operating efficiencies that allow it to develop and deploy new broadband technologies and services Believes that its technological platform is the only one that will allow true integration of voice, video and data services 		
Service Offerings	ica, interes, anno peri e, 1920, ul anterestalistato, preliadori de distributamente de acceptable de la companya del la companya de la companya del la companya de la compa	i diamini deriminani di di di diamini dere di	omenine dizzi, secretzetet settetaetaini secendete anterioren mort occinit
•	Local access (dial tone)	✓	
	Switched services including long distance	✓	
	Dedicated lines (data)	✓.	
	Internet	✓	
ani na pangangan atau di ngjar, ayaya ke amananka nggangan ang anggangan a se sagandan	Cable Television	er en	overkand subjects on outstanding whitever is relieved a subject sources at the figure makes in contact compare

NextLink Synopsis



NextLink, which was co-founded in 1994 by Craig McCaw--the former owner of McCaw Cellular--through his investment company, Eagle River Investments, is an active facilities-based competitor that has engaged in multiple alliances to procure capacity where it has not deployed facilities directly. While NextLink utilizes some UNE loops and ILEC service resale to initially reach customers, facilities-based provision is its primary objective for switched local and long distance services in 38 markets in 14 states. NextLink generally provides its own class five switches and either deploys or secures its own local and long-haul transport capacity from sources other than the ILEC.

NextLink targets small to medium-sized businesses with a bundled service offer that includes local, long distance, and enhanced services. With a nationwide sales force of nearly 350 people, NextLink is implementing a strategy that will enable it to offer end-to-end voice and data communications exclusively over its own facilities. To this end, its number of switches installed has increased from 13 on December 31, 1997, to 21 as of December 31, 1998, and its number of fiber route miles has increased from 133,224 to 195,531. The strategic decision to develop its own network stems from NextLink's stated belief that long-term financial performance will be enhanced if traffic flows over its own network.

NextLink Synopsis (continued)

NextLink just announced the launch of its Dallas-Fort Worth network on December 14, 1998, and claims it will have an operational network footprint able to serve "virtually every business in Dallas." In fact, NextLink already has deployed 84 fiber miles and placed a Nortel DMS 500 switch in the Dallas-Fort Worth Metroplex. In Los Angeles, NextLink owns three distinct local fiber networks that campus the greater Los Angeles area: Gardena, Beverly Hills/West Hollywood, and Orange County (from Fountain Valley, north through Anaheim, and west to Buena Park, Stanton, and Los Alamitos). Additionally, NextLink possesses three class five Northern Telecom DMS10S switches in the greater Los Angeles market. GTE provides some UNE loops to NextLink in the Los Angeles area.

NextLink has several notable deals with other carriers to expand the company's facilities, customer base, and the scope of services. First, in February 1998, NextLink and Metromedia Fiber Network signed a 20-year, \$92 million fiber agreement. The agreement, together with one inked in June 1997, gives NextLink a long-haul, inter-city link between New York and Washington, D.C., as well as access to metropolitan networks of lit fiber in New York (outlying areas), Philadelphia and Washington, D.C. To expand its customer base, NEXLINK completed the acquisition of Chadwick, an IXC (reseller), in the fourth quarter of 1997 for \$5 million stock and debt. In a joint venture announced last July, NextLink entered into a \$700M 50/50 joint venture ("INTERNEXT") with Eagle River Investments for the purchase of 24 dark fibers and one empty conduit in Level 3's 15,000 mile nationwide long haul network. According to NextLink, the INTERNEXT inter-city network will be the centerpiece of NextLink's emerging data strategy. NextLink currently offers LD services through switched resale to its local customers. Over time, however, NextLink has stated it plans to migrate traffic to capacity of Level 3's network as each segment of the long-haul network is completed, thereby gaining network cost savings.

Another significant arrangement is NextLink's 50/50 joint venture with its sister company NEXTEL, which has purchased LMDS licenses that cover 105 million POPs in 41 markets including Los Angeles, San Francisco, San Diego, New York, and Seattle. In addition to its own facilities, NextLink will gain access to a network platform capable of providing broadband services over a wireless local loop, thereby completely bypassing the ILEC. Most recently, in January, 1999,

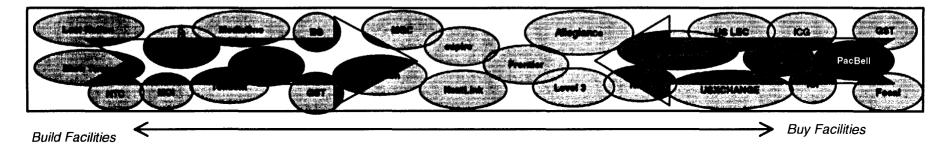
NextLink Synopsis (continued)

NextLink announced that it has invested \$20 million in Covad Communications. As a result, Covad becomes the preferred provider of DSL services to NextLink, and NextLink becomes Covad's preferred provider for local transport and collocation service in its regional data centers.

NextLink Synopsis (continued)

	Dallas-Fort Worth	Los Angeles	
Facilities	One class five switch: - Nortel DMS 500, Nortel access node and multiplexing equipment equipment	Three class fiv - DMS10S	ve switches
	SONET ring	Three distinct	SONET rings
Targeting	National strategy of targeting small to med pursue large businesses if market opportun		omers (less than 50 lines) but will
	 Prefers to use own facilities due to the higher margins but will use ILEC UNEs and/or service resale as an initial entry strategy. Customers are migrated to NextLink facilities as economically justified. 		
	 Offers a suite of bundled services, incl data/internet services. 	uding long dist	tance, local wireline, and many
Strategy	 Builds geographically vast fiber networks of suburban areas. 	capable of servi	ng customers in metropolitan and
	 Uses strategic alliances to expand facilities, customer base, and scope of services. 		
	 Offers consolidated billing and higher qua retain profitable customers. 	lity levels with	responsive service to attract and
	 Emphasizes efficient provisioning of custo success. 	omer service as	s one of the keys to competitive
Service Offerings		Y es	No
	Local access (dial tone)	✓	
	Switched services including long distance	✓.	
	Dedicated lines (data)	√	
	Special access services	√	
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PacBell CLEC Synopsis



PacBell CLEC is a part of SBC/Pacific Bell that was created for out-of-franchise expansion in California. PacBell CLEC is not a separate subsidiary, so it must abide by the same rules and regulations as its parent. Like Pacific Bell, PacBell CLEC is not allowed to offer long distance service because the company has not yet complied with the Section 271 checklist requirements of the *Telecommunications Act of 1996*. The company does not maintain any of its own capacity and typically leases the facilities it needs to meet customer demand.

In the dense market of Los Angeles, PacBell CLEC enjoys brand recognition associated with its parent, which is advantageous for its selective expansion into GTE's territory. PacBell CLEC targets small to mid-size businesses with annual communication expenditures between \$100,000 and \$250,000. It predicts that it will gain market share in the Los Angeles MSA during the coming year as it gains clusters of business customers; its best success apparently is in winning branch locations of Pacific Bell's business customers.

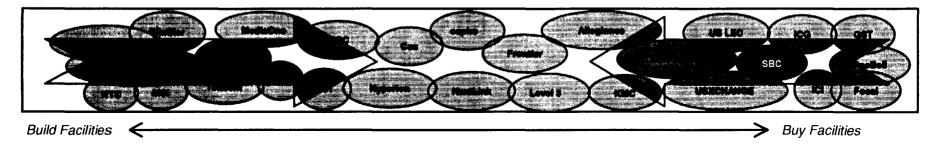
While PacBell's switching can be accomplished by hauling traffic to the facilities of its parent, PacBell CLEC can lease loop and transport capacity from multiple sources, including AT&T, GST, GTE, MCI WorldCom, NextLink, WinStar, and others. PacBell CLECs stated goal is to lease DS-1 lines and above. PacBell CLEC does not wholesale its lines to other CLECs, but nor does it actively wholesale to ISPs, including PSInet, Netcom, and NetCo.

PacBell CLEC Synopsis (continued)

Los Angeles

roomiseen vaatid onderseen asterioosi visusteidi isoloonaaa vaanastaalaan kastooniseltees eksa. Facilities	No owned facilities. All capacity is leased from other carriers.			
racinues	No owned facilities. All capacity is leased	nom other camers	•	
Targeting	Targets small to medium-sized businesse expenditures of \$100,000 to \$250,000.	s with annual comr	nunications	
	 Nearly all of its customers are multi-carrie Internet. 	r, using it for either	local access o	
	 Currently barred from offering interLATA long distance services. 			
	Out-of-franchise expansion for SBC/Pacific Bell			
	 Leverages parent PacBell's "brand recogn 	nition"		
	 Lease all facilities initially 			
Service Offerings		recolor accomplication and excitative formed in a classical state and excitative describes and electrical values. Yes	nium utiliriniateeratuuri taa rise ilimarkalis tähteemääy je yite yiteliikitisa. NO	
	Local access (dial tone)	✓		
	Switched services (LD)		✓	
	Dedicated lines (data	\checkmark		
	Special services (HiCAP, ATM, ADSL)	✓		
	Internet	✓		

SBC Synopsis



Like the PacBell CLEC, SBC is a part of Regional Bell Holding Company SBC and is designed for out-of-franchise forays but remains subject to interLATA long-distance restrictions. The company is especially active in the Dallas-Fort Worth Metroplex. Dallas-Fort Worth is the third largest in SBC's territory and the ninth largest metro area nationwide. In 1997, SBC installed fiber rings in GTE's service areas in several northern suburbs in Dallas and Collin counties and has been offering a combination of facilities-based (UNE loop) and resold local services to residential and businesses customers in the Irving, Plano, and Garland suburbs of Dallas.

Currently, there are approximately 17 buildings connected to the competitive facilities (6 in Plano and 11 in Irving). For customers located in off-net buildings, SBC offers resold services. SBC also has collocated facilities in several GTE central offices and markets its packages primarily on the basis of savings for intraLATA toll usage.

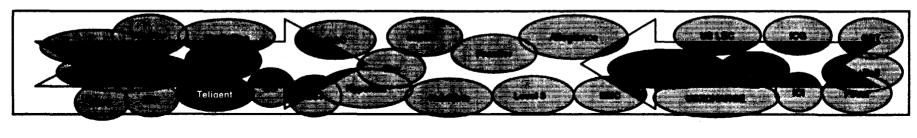
The local loop is the only network elements SBC secured from GTE. The company either leases or deploys its own transport capacity, and it utilizes the switching and other elements of its parent, ILEC SBC in Dallas.

SBC Synopsis (continued)

Dallas-Fort Worth

	Danao	, ort troitin	
Facilities	20 commercial buildings in Irving and Plano on-net via fiber ring, resale available to off-net locations		
Targeting	 Businesses on fiber rings in Plano and Irving High-end business customers easier to attract Offers local, long distance, international transmission, and Internet services 	act and those ger	• •
Strategy	 Less aggressive than other market entrants, possibly due to ILEC business and share expectations Some expansion plans tied to completion of merger with Ameritech 		
Service Offerings	grande et eur et este eur en	Yes	No.
J	Local access (dial tone)	✓	
	Switched services (interLATA long distance)		✓
	Dedicated lines (data)	✓	
	Special access services	✓	

Teligent Synopsis



Build Facilities

Buy Facilities

As of March 1999, Teligent is active in 24 markets and plans to expand to 40 markets by the end of the year. Teligent deploys a wireless local network and its own class five switches that enable it to bypass ILECs entirely, so no UNEs are necessary for the loop.

Teligent claims its wireless local network offers at least four advantages: (1) economical coverage of an entire metropolitan area, (2) addressability of the entire local business market wherever deployed, (3) lower network costs compared to fiber deployment, and (4) broadband capacity for high-speed data and Internet services. With purportely low network development costs, Teligent aggressively prices its services upwards of 30% below its wireline competitors.

As an example of addressability, a single-base station for Teligent serves a cell sector about 4 kilometers wide and can provide dedicated two-way bandwidth-on-demand to any building in a line-of-sight. The coverage area utilizing Teligent's 24-gigahertz frequency is approximately two miles. The key to Teligent's network strategy is access to rooftop locations for its antennas; Teligent currently has secured leases or lease options for roof access to 2,400 potential customer buildings and CLEC certification covering all 74 of its eventual planned markets.

Teligent Synopsis (continued)

In the Dallas-Fort Worth Metroplex, Teligent launched its network in July 1998 and has installed the rooftop equipment necessary to access at least 60 buildings. Furthermore, Teligent has agreements in place for access to 60 additional buildings in the Dallas area. At the hub of this network is a Nortel DMS500 switch that routes local switched traffic in the Dallas area. The network also utilizes Nortel routers and ATM switches, enabling Teligent to handle voice and data traffic through its own facilities.

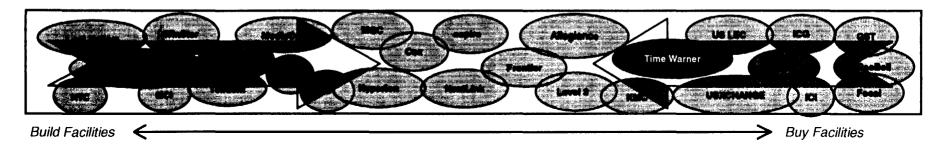
As in Dallas, Teligent operates Nortel DMS500 switches in Tampa and Los Angeles. In Los Angeles, Teligent launched commercial service over its network near the end of the fall of 1998 after initial beta testing of service to three base stations (hub sites) and 19 customer buildings. According to Dallas-based representatives of the company, the only UNEs used by Teligent are inter-office transport and SS7. Teligent provides its own (wireless local) loops, local and tandem switching, operator and directory assistance, and operation support systems. Teligent was not purchasing any UNEs from GTE as of December 31, 1998.

Although Teligent is a relative upstart even among CLECs, it enjoys a strong funding position with approximately \$1.3B in available capital. Furthermore, Teligent is backed by large equity partners with telecommunications experience: the Associated Group, Inc. who has had a history of ventures in wireless, radio and cable television; Telecom Ventures, LLC who owns a majority of publicly-traded LCC International, Inc., one of the world's largest wireless engineering companies; and, Nippon Telegraph and Telephone Corp. of Japan, which has invested \$100 million in Teligent, is one of the world's largest and most technologically advanced telecommunications companies. Additionally, Teligent has named Nortel (Northern Telecom) as its preferred equipment supplier and principal network integrator.

Teligent Synopsis (continued)

	Dallas-Fort Worth	Tampa	Los Angeles		
Facilities	One class five switch DMS500	One class five switch DMS500	One class five switch DMS500		
	Broadband wireless local network	Broadband wireless local network	Broadband wireless local network		
Targeting	 National strategy of target 	ing small to medium-sized busines	ses (fewer than 50 lines).		
	 Focus on retail sales to er 	nd-users, not wholesaling.			
	If a customer enters into a one year (or longer) contract, discounts are available of up to 30% relative to wireline competitors for similar services.				
	 Offers a suite of bundled services, including long distance, local wireline, and many data/internet services. Market expansion predicated on establishing a base station within a targeted geographic market. 				
Strategy	 Emphasize high quality se 	• • • • • • • • • • • • • • • • • • •	oment is purchased and deployed. fixed wireless network architecture to		
	 provide facilities-based co Interactive support provide view their bill online. 	•	ement tools that allow the customer to		
Service Offerings	kinturus 120 m ilgantus <mark>ikan taka 12 1200 asa ali</mark> kika ikitak interiorakan dan alamakan 16 16 16 16 16 16 16 16 16 16 16 16 16	Sanakarana kisan olemati kang malit inamaniko an interior manderita an tance deritar, panje a filme alle (incomercia) genera salah salah kan Yes	na dia ana ang kata na matalangan katangan katangan katangan katangan katangan malan sa katangan katang Kanangan katangan katanga		
	Local access (dial tone)	✓			
	Switched services	✓			
	Dedicated lines (Data)	✓			
	Special access services	✓			
	Internet	✓			

Time Warner Telecom Synopsis



Formed as a partnership of US West and Time Warner in June 1993, Time Warner Telecom builds, operates, and maintains its own SONET-based fiber networks. As of the third quarter 1998, Time Warner operated 19 local networks that consisted of 6500 route miles, 2.5 million voice-grade equivalent circuits, and 16 switches. In addition to these facilities, Time Warner and AT&T announced in February 1999 a joint venture to provide cable telephony though Time Warner's cable system in 33 states. With Time Warner's expanded network, it will be able to bypass ILEC networks completely, requiring no UNEs.

Although Time Warner does not serve residential customers at this time, it currently offers a full complement of analog switched and digital local services (from fractional T1 to OC-12) to business customers. Some ILEC service resale is employed, and customers are subsequently migrated onto Time Warner's network. The joint venture with AT&T will increase Time Warner's capacity for local and long-distance telephony significantly and expand its customer targeting to both residential and business segments.

Time Warner Synopsis (continued)

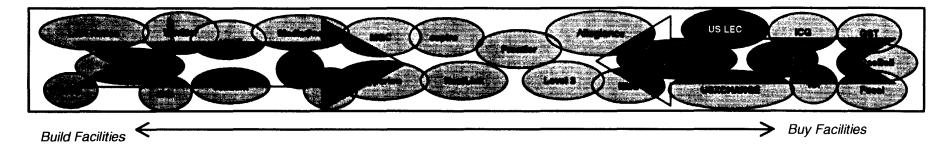
In Tampa, Time Warner operates one Lucent 5ESS switch and a rapidly growing network. Its SONET ring in Tampa is about 75% complete with 217 miles. In comparison, Time Warner's SONET ring in Orlando has over 600 miles deployed. In addition to retailing services over its own facilities in Tampa, Time Warner also an active wholesale provider to other carriers. Time Warner representatives declined, however, to identify any specific arrangements.

In Dallas, Time Warner announced in March 1999 that it will offer dedicated transport, long distance, high-speed Internet access and switched local services to medium and large-sized businesses beginning this summer. Time Warner is constructing a fiber optic network in the area using leased conduit in an agreement with Level 3 Communications, Inc.

Time Warner Synopsis (continued)

	Tampa	Los Angeles		
Facilities	One class five switch - Lucent 5ESS SONET ring covering Bradenton, Clearwater, Lakeland, Sarasota, St. Pete, Tampa and Zephyrhills	One class five - Lucent 5E	•	e ar sa Auto e - Au Sibaldidos,
Targeting	Business customers with a preferred minimum.	num of 12 lines	h-issociatiosessi enisti saidestalaiki lähkimmadilissoi valatavak seiskuutuu isoke ja ja ja ja	end (1500, 166) hall-ener del Cacalul Schild (1500) Hearthe co
	 Wholesale customers to utilize unused net 	work capacity		
	Offers a full complement of analog switched and digital local services (from fractional T1 to			
	OC-12) to business customers			
	 Planned expansion into all market segment AT&T 	nts with cable-base	ed telephony via joint ven	ture with
Strategy	 With existing network and customer base, Recent deal with AT&T will position Time \u22accustomer segments in 33 states 		•	
	 Joint venture with AT&T will provide local a of ILEC networks. 	and long distance	capabilities with complete	bypass
Service Offerings	and the second of the second o	Yes	NO	All to him a general mental of an individual new later of the contract of the
	Local access (dial tone)	✓.		
	Switched services including long distance	√		
	Dedicated lines (data)	∀ .∕		
	Special access services Internet	▼	✓	

US LEC Synopsis



US LEC is a rapidly growing facilities-based carrier that provides local, long-distance, and enhanced services. Similar to Focal Communications, US LEC employs a "smart build" strategy of purchasing and deploying switching equipment then leasing fiber optic transmission capacity from other carriers. As of the first quarter 1999, US LEC operated 12 Lucent 5ESS Any Media™ switches and has announced plans to install four additional switches by the end of the year. Furthermore, US LEC has begun installing Alcatel MegaHub 600ES tandem switches to complement its Lucent switches, thereby improving its ability to offer calling card, toll-free, operator, and Virtual Private Network (VPN) services.

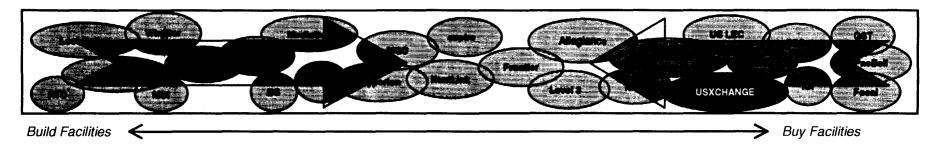
US LEC targets business, institutional, and government customers as well as Internet service providers with a full range of offerings: local, long-distance, enhanced services, Internet access, and data networking. Since US LEC's facility deployment emphasizes a regional clustering of operations, it claims a growing portion of its customers' calling is routed onto its own network.

In Tampa, US LEC installed a Lucent 5ESS switch in December 1998: the fourth switch US LEC has deployed in Florida and an example of US LEC's regional strategy. At that time, US LEC purchased no UNEs or resold services from GTE in the area.

US LEC Synopsis (continued)

	Tampa		
Facilities	One class five switch - Lucent 5ESS		
Targeting	Targets business, institutional, and governing service providers	ment customers a	s well as interne
	 Offers local, long-distance, enhanced servinetworking 	ces, Internet acce	ess, and data
Strategy	 Employs a regional clustering strategy Employs a "smart-build" strategy: deploys its own class five swith utilizes transport facilities of other carriers Derives a significant portion of its revenues from reciprocal comparrangements with the ILECs, particularly Bell South 		
Service Offerings		Yes	No.
_	Local access (dial tone)	✓	
	Switched services including long distance	✓	
	Dedicated lines (data)	✓	
	Special services	✓	
	Internet	✓	

USXCHANGE Synopsis



Founded in 1996, USXCHANGE (USX) is a privately held facilities-based carrier that operates in the upper mid-west United States. As of mid-1998, USX operated networks in four cities and stated plans to expand to at least 14 additional markets. USX initially employs ILEC service resale and then shifts customers onto its own network as capacity is built and as economically justified. USX has a Lucent 4ESS switch in each of its four markets, and it typically operates its own metropolitan fiber networks.

USX focuses primarily on small to medium-sized business customers with an integrated service offer and a lower price point than its ILEC competitors. Specifically, USX bundles local, long-distance, toll-free calling, Centrex, data, paging, and Internet access onto a single monthly invoice. The company also advertises savings of 5–15% off the comparable rates from Ameritech and GTE.

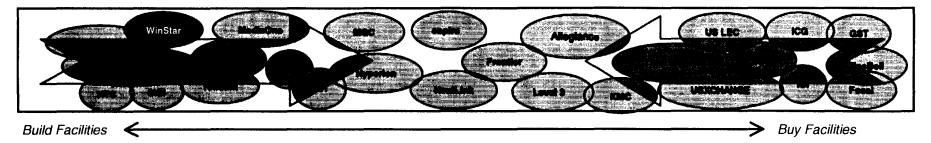
In Fort Wayne, USX was the first CLEC to provide local service and has invested approximately \$30 million to build its network infrastructure. USX has constructed two 72 strand fiber rings that follow a 45 mile path around GTE's eight central offices in Fort Wayne. At the hub of USX's network is a Lucent 5ESS switch capable of supporting voice, data, long distance, and Internet services. Although USX employs significant service resale from GTE in Ft. Wayne, it has begun to serve customers using UNE loops. Local representatives in Fort Wayne indicate that USX eventually will expand its focus to include residential customers and suggested that its ideal mix of business and residential customers would be a 70%/30% mix in favor of businesses.

USXCHANGE Synopsis (continued)

Fort Wayne

Facilities	One class five switch Lucent 5ESS	ennement is Africa and its account of this Economic Professional Assessment States and Africa and Africa and A	gas vocasier elle verskere kritise vinne, manere schildenskeren i V.V.
	Two 72 strand SONET rings covering 45 route	miles	
Targeting	Small and medium-sized businesses, with a expand to residential service	stated intention	eventually to
	Bundles local, long-distance, toll-free calling, Centrex, data, paging, and Internet access onto a single monthly invoice		
Strategy	 Initially utilizes ILEC service resale then shifts custom economically justified 		net as
	 Uses ILEC UNE loops in conjunction with it 	s own switching a	and transport
Service Offerings		ransi mikumahan asahin di akada di akada mata da akada a Yes	No
•	Local access (dial tone)	✓	
	Switched services including long distance	✓	
	Dedicated lines (data)	✓	
	Special access services	✓	
	Internet	✓	

WinStar Synopsis



Similar to Teligent, WinStar is a facilities-based carrier that utilizes a fixed wireless loop technology as its primary network architecture. In contrast to Teligent, however, Winstar pursues both retail and wholesale customers, providing local loop alternatives to other carriers. WinStar typically enters markets by using ILEC resold services or UNE loops, and then it migrates customers to its own facilities as economically justified. WinStar's market entry strategy may be summarized as follows:

- Identify target buildings
- Pre-wire target buildings

• Acquire roof rights

- Sell to customers in target buildings
- Install a switch on parallel paths
- Replace resold lines with "wireless fiber" connections directly to the switch or to hub sites that are connected to the switch

WinStar's approach significantly reduces its reliance on UNEs, and it provides flexibility for total bypass of ILEC loop and switching facilities.

As a retail provider, Winstar offers a comprehensive set of services targeted towards small and medium-sized business customers: local, long distance, Internet, enhanced services, and information services. WinStar also offers Centrex, trunks, and digital T-1 service for customers with PBX (Private Branch Exchange) equipment on premise. And like Teligent, WinStar targets a price point about 25% below its wireline competitors.

WinStar Synopsis (continued)

As a wholesale provider, WinStar serves two important market niches: (1) facilities-based extension to existing competitive networks and (2) opportunities for resellers to use WinStar's capacity. WinStar positions itself as a quick, cost-effective solution for carriers to achieve the following results:

Provide local transport

Interconnect cell sites in PCS/Cellular networks.

- Extend the reach of an existing fiber ring
 - Extend networks to new buildings
 - Reduce time to market
 - Increase capacity
 - Optimize working capital
- Serve as the primary link between buildings in a private network application
- Add route diversity (alternative path routing) or backups in any of these applications
- Provide bandwidth capable of handling voice, data and video applications.

Among markets profiled in this research, Dallas was one of the first that WinStar entered. Consistent with its strategy to install facilities in a central business district and then branch out to nearby markets, WinStar expanded its operations into neighboring Fort Worth in the first quarter of 1998. In the Metroplex, WinStar has placed transmission equipment on at least 50 buildings and has agreements in place for an additional 150 buildings; some of these buildings already are prewired and awaiting placement of a rooftop antenna. WinStar has similar network configurations in Tampa and Los Angeles, and the company operates at least one Lucent 5ESS switch to route local traffic in each market. In the greater Los Angeles area, WinStar has three Lucent 5ESS switches, and in Dallas-Fort Worth it has one. Data capability is provided by Newbridge ATM switches and Cisco routers. WinStar representatives indicated the company employs some UNEs for interoffice transport, SS7, and the loop, but it did not do so from GTE as of December 31, 1998. WinStar representatives also indicated that the company does not purchase UNEs for local switching, tandem switching, operator services, or directory assistance.

WinStar Synopsis (continued)

	Dallas-Fort Worth	Tampa	Los Angeles
Facilities	One class five switch	One class five switch	Three class five switches
	- Lucent 5ESS	- Lucent 5ESS	All Lucent 5ESS
	Broadband wireless local network	Broadband wireless local network	Broadband wireless local network
Targeting	 Retail. Based on building locations, small and medium-sized businesses in 24 markets. Retail. Offers broadband services and bundled packages at discounted prices coupled with a high degree of customer care. Wholesale. Offers wholesale loop alternatives for facilities-based carriers. Wholesale. Offers service resale opportunities to non-facilities based CLECs. 		
Strategy	 Employs ILEC UNEs and as economically justified. Utilizes fixed wireless netwithis cost advantage is expense. 	work architecture that purportedly is acted to increase over time as the purportedly offers flexibility and sp	•••
Service Offerings	Local access (dial tone) Switched services including to Dedicated lines (data) Special access services Internet	Yes ✓ ong distance ✓ ✓	ian samunuseettus, utaja eikeike eksis mismali si seemete een misma, asisten istosta vasta saatrakitiimuusid aja essa No

I declare under penalty of perjury that the foregoing, which was prepared under my direction, is true and correct.

PAY BY, 1999
executed on

Paul Rappoport, Ph.D.